Public Health Service Proves Disease Is Due to One-Sided Diet.

**TESTS ON CONVICTS** SETTLE ALL DOUBT

Result Officially Declared Epoch Making in Fight Against Dreaded Plague.

Health Service, have conclusively established the cause and cure of pella-disease was very prevalent, except gra. As a result, a disease which 75,-among those girls who worked in the 000 persons in the United States will have before 1915 ends, and from which workers have before 1915 ends, and from which there will be not fewer than 7,500 eggs and milk they wanted, while the deaths in the year, may be entirely other workers of the same age did not deaths in the year, may be entirely wiped out.

The disease is caused by a one-sided diet-too many cereals and too little meat, eggs, milk, beans, peas and other foods containing proteids

from Governor Brower that they would be pardoned after the experiments, were segregated in the prison camp, Ex-Secretary Repudiates Navy just eight miles from Jackson. Twenty other convicts were kept under precisely the same observation, and with were kept on a normal diet. Six of the evelen contracter pellagra within five months, their cases being verified by several scientists as true pellagra. The official account of the experi-

ments announced to-day by Assistant Secretary of the Treasury Byron R. Newton, in charge of the Public Health Service, says:

"The final epoch-making experiment of the Public Health Service was car-ried out at the farm of the Mississippi State Penitentiary, about eight miles east of Jackson, Miss, and, to-gether with the previous work of the service, completes the chain in the prevention and cure of the disease. The work at the Mississippi farm has

is the convict camp.

"The final experiment was undertaken for the purpose of testing the possibility of producing pellagra in healthy human white adult males by restricted, one-sided, mainly carbohy-drate (cereal) diet. Of eleven convicts who volunteered for this experiment six developed typical dermatitis mild nervous gastro-intestinal symp-

conserve their health. Mas E. Maris on twelve of the convicts don twelve of the convicts who would volunteer for the experiment. They were assured that they would receive proper care throughout the experiment proper care throughout the experiment and treatment should it be necessary. The diet given was bountiful and more than sufficient to sustain life. It differed from that given the other convicts merely in the absence of meats, milk, eggs, beans, peas and similar proteid foods.

"In every other particular the convention of the conventio

proteid foods.
"In every other particular the convicts selected for the experiment were treated exactly as were the remaining convicts. They had the same routine work and discipline, the same periods of recreation, and the same water to

"Their quarters were better than those of the other convicts. The diet given them consisted of biscuits, fried mush, grits and brown gravy, syrup, corn bread, cabbage, sweet potatoes, rice, collards and coffee with sugar. All components of the dietary were of the best quality and were properly cooked.

cooked.

"As a preliminary, and to determine if the convicts were afflicted with any other disease, they were kept under observation from Fébruary 4 to April 19, two and a half months, on which date the one-sided diet was begun.

"Although the occurrence of nervous symptoms and gastro-intestinal disturbances was noted early, it was not until September 12, or about five months after the beginning of the restricted diet, that the skin symptoms so characteristic of pellagra began to develop. These symptoms are considered as typical, every precaution being taken to make sure that they were not caused by any other disease. The convicts upon whom the experiment was taken to make sure that they were not caused by any other disease. The con-viets upon whom the experiment was being made, as well as twenty other convicts who were selected as controls, were kept under continuous medical surveillance.

No cases of pellagra developed in "No cases of pellagra developed in camp, excepting among those men who is the restricted diet. The experimenters have, therefore, drawn the conclusion that pellagra has been caused in at least six of the eleven volunteers as a result of the one-sided diet on which they subsisted.

"On the basis of this discovery the

a most interesting test on monkeys, an exclusive account of which was printed exclusive account of which was printed in The Tribune on April 28, last, in which Assistant Surgeon General Kerr, of the Public Health Service, announced that thad been demonstrated that pellagra was not contagious. All efforts to induce pellagra among the monkeys, 125 of which were kept on a farm near Savannah, Ga., falled.

Dr. Kerr said at the time of beginning the experiment on the prison farm: "As nearly as we have worked it out, pellagra is caused by a diet not sufficiently diversified and which, therefore, does not properly nourish the

fore, does not properly nourish the body. We hope to complete our work and clear up the whole problem in pos-

sibly a year."

The prediction then made in The Tribune has come true in less than seven months.

First Theory Wrong.

The original theory about pellsgra was that it was caused by eating damp or spoiled corn. This was soon dissi-pated by the work of the Public Health raratively hard work. Between the was ages of five and sixteen, however, the curity.

It was discovered that the kitchen

## Eleven convicts, with the promise THREAT TO SUE GETS

stretching from Maine to the Rio realization of an enemy's fleet mine whether the theory about the lack of proteid foods was correct.

THREAT TO SUE GETS

DENIAL FROM BRYAN

Ex-Secretary Repudiates Navy

League Subsidy Charge.

(Prem The Tribune Bursen.)

Washington, Nov. 11.—W. J. Bryan has written to Robert M. Thompson, president of the Navy League, repudiation manufacturers. Mr. Bryan was quoted in Philadelphia papers on November 2 as saying; "The National Security League and the Navy League are plaid agents of the shipbuilders and munition makers."

Every League and the Navy League are plaid agents of the shipbuilders and munition makers."

Colonel Thompson threatened Mr.

Stretching from Maine to the Rio Grande, one section of an enemy's fleet miter content of an enemy's fleet miter contents of an enemy's fleet miter contents of an enemy's fleet mine convict experiment was started—to determine whether the theory about the lack of proteid foods was correct.

Climan Bros. bought last week the property at the northwest corner of Property at audion, All Property at audion Property at audion P precisely the same treatment-water, has written to Robert M. Thompson, exercise, hours of leisure, and every- president of the Navy League, repudithing else except diet. The eleven ating statements accredited to him that convicts were given food absolutely the Navy League is subsidized by mulacking proteids, while the twenty nition manufacturers. Mr. Bryan was munition makers."

Colonel Thompson threatened Mr. Bryan with legal action unless he should either withdraw his charges or

sent a copy of a printed speech entitled "The War in Europe," concerning which he wrote: "The speech which I delivered at Philadelphia is the speech which I have been delivering all over the country, and I inclose a copy with the passage marked which refers to the

Navy League.

In this printed speech there is only one reference to the Navy League and that does not in any way charge that any subsidy received by that body

### APARTMENT'S CLIMATE TOO COLD, JURY HOLDS

Owner Says It Was Torrid, Since Dweller Went Deshabille.

"Experts, including Dr. E. H. Galloway, secretary of the Mississippi State
Board of Health; Dr. Nolan Stewart,
formerly superintendent of the Mississippi State Hospital for the Insane, at
Jackson; Dr. Marcus Hause, professor
of dermatology, Medical College of the
University of Tennessee, Memphis, and lease on an apartment in the house at
Dr. Martin R. Engman, professor of
dermatology in the Washington Medical College of the
University of Tennessee, Memphis, and lease on an apartment in the house at
Dr. Martin R. Engman, professor of
dermatology in the Washington Medical College of the
University of Tennessee, Memphis, and lease on an apartment in the house at
Dr. Martin R. Engman, professor of University of Tennessee, Memphas, and University of Tennessee, Memphas, and Dr. Martin R. Engman, professor of 230 West 102d Street.

Dr. Martin R. Engman, professor of 230 West 102d Street.

Livingston. Mrs. Sinciair and her dermatology in the Washington Medi-Livingston. Mrs. Sinciair and her dermatology in the Washington Medi-Livingston. Mrs. Sinciair and her dermatology in the Jones apartical School, St. Louis, declare that the daughter also lived in the Jones apartical School, St. Louis, declare that the daughter also lived in the Jones apartical of the least school.

ed a director of the Southern Pacific to succeed Cornelius N, Bliss, resigned. It was announced that there was no significance to the resignation of Mr. Bliss except that he desired to lighten his work. The appearance of Mr. Underwood on the Southern Pacific board, it was stated, does not mean that any new traffic relations have been established between the company and the Eric.

FIRE RECORD. A. M. 2 10-965 Amsterdam av.; Goldman Bros.; 10:10-220 West 145th at; Stephen Hac triffing. 10:20-102 Allen st; Martin Engel; triffing. P. M. 12 ht. 186 Ludiow et.; Lillian Jinannell; triffing. 12 ht. 341 East 47th st.; Clausen Flanagan Brewling Co.; none.
2 15—170 West 22d st.; Mrs. Govatz; none.
2 15—170 West 22d st.; Mrs. Govatz; none.
2 15—170 West 22d st.; Mrs. Grovatz; triffing.
2 10—80 Water st.; C. H. Carnon & Co.; triffing.
2 10—Hariem River and 186th st.; unknown; none.

# Correct Driss for Men

Carr's English Melton Overcoats

Satin-lined Winter Overcoats of this durable fabric value that needs no comment.

Hensomen Fifth Ave Building Broadway Cor 24th St

### Florida have laid their propagands, through their respective boards of U. S. AID IN WAR The experiment on convicts followed

Henry L. West to Waterways Men.

"The war in Europe," said Mr. West, Jacob F. Cullman, tobacco dealers. "has given new importance to the in-tra-coastal waterways, because no of-fective system of national defence can years. The improvement to be made to fective system of national defence can be desired which does not take them into consideration. With a coast line attetching from Maine to the Eio Grande, one section of an enemy's fleet cannot be landing men at a remote Callman Bros. bought last week the

### NEW BUILDING PLANS.

The Bronx.

The Bronx.

ISOTH ST, n s 267 s Courtlandt ar, 5 sty brick tenut, 50rps; JT Construction Co. Now Theise, 544 East 169th st, owner; Edward J Byrne, 505 Willis av, architect; School Willis av, architect; School Reproceeding the Style of Style of

SALES AT AUCTION.

By Joseph P. Day.

73D ST. 48 E. a s. 184 c Madhon at Portors. 4

97th st. for Adela Dows to William Newell. sty dwig; adjourned to Now 25. BTH AV, 8, e s. 67.5 n Bleecker at, 30x43.8x25.6x 17x5.6, 3 sty tenemout; to Clement S Parsons for 35,000. LAIGHT ST, 52, n s, 125 w Hudson st, 25x70.9x irreg, 2 sty tenement; Ellie J Donnellan for \$7,100.

# **EXCHANGE SITE**

Railways Inadequate, Says Cullman Bros. Also Dispose of Seven Other Structures.

PEACE PROPHECY
CALLED FOOLISH

People Urged to Stir Congress—
Redfield Pleads for American Merchant Marine.

Iby Teigraph to The Tribuna I Savannah, Nov. 11.—The need of preparedness for defence was again the main topic at to-day's session of the Altantic Deeper Waterways Association. Henry L. West, executive secretary of the National Security League, was the principal speaker. His topic was "Waterways and National Security League, was "Waterways and National Securit Dreaded Plague.

Service. Experiments were then conducted in several institutions. In an institution for girls it was found that to bables nuder five years of age institution for girls it was found that to bables nuder five years of age in the property of the National Security League, to was the principal speaker. His topic at to-day's session of the gether with the seven other structures.

Atlantic Deeper Waterways Associated adjoining and forming with the extension of the ducted in several institutions. In an institution for girls it was found that no bables nuder five years of age into the condition. Henry L. West, executive secretary of the National Security League, was the principal speaker. His topic was "Waterways and National Security Parallel Planta and forming with the extension of the Service. Experiments were then conducted in several institutions. In an institution for girls it was found that no bables nuder five years of age into the National Security League, was the principal speaker. His topic was "Waterways and National Security Parallel Planta and forming with the extension of the Malantic Deeper Waterways Associated in the seven other structures.

Atlantic Deeper Waterways Associated in the seven other structures.

Atlantic Deeper Waterways adjoining and forming with the extension of the National Security Planta and Forming with the extension of the National Security Planta and Forming with the extension of the National Security Planta and Forming with the extension of the National Security Planta and Forming with the extension of the National Security Planta and Forming with the extension of the National Security Planta and Forming with the extension of the National Security Planta and Forming with the extension of the National Security Planta and Forming with the extension of the National Security Planta and

It was foolish to prophesy that the nited States was immune from attack, or added, citing the grave questions ow causing diplomatic exchanges beween this and other countries.

"We will not go to war," said Mr. Cest, "because we will try to settle cute differences in peaceful fashion, he vital point is that it does not take to to make a war, and other nations and the rest of the state of the first of the first of the first of the Mutual Waist and Bress Company, to the will point is that it does not take to make a war, and other nations and the rest of the first of the fir

Realty Company, Knox Representative J. Charles Linthieum.

Representative J. Charles Linthieum.

Maryland: Colonel William C. Langtt, U. S. A., engineer in charge of the
avannah district, and Secretary of
Commerce Redfield also spoke.

A merchant marine controlled in the
lis interest of the movement of Amertan commerce was declared a vital netestity to the future welfare of the
a vacant plot, 65x113 feet. The site

Moss the new five story thirty-one fam.

Packers Box Company, for the Chaisea

Realty Company, also the sixth floor
front in building at 245 West 55th st.
to L. V. Fletcher & Co., the sive on a plot 75x100 feet.
HONEYWELL AV.—A. Blumenthal
has sold for the Neison extate to the
has sold for the Neison extate to the
has sold for the Neison extate to the
has sold for the Southwest
an commerce was declared a vital netestity to the future welfare of the
a vacant plot, 65x113 feet. The site

Goodwin & Goodwin have rented for

ALTERATIONS.

The Bronx.

2207H ST, S19 E, 1 sty frame dwlg, 19x17.8; Lento A Caputo, on premises, owner; Anthony J De Pace, 554 East 217th at, architect; 12,000
LORILLARD PL, n c or 189th at, 4 sty brick settles, 127.32, City of New York, owners, C B J Snyder, 7 West 126th at, to Thomas G. Methods at Auction Company of the State of the Stat

the three story dwelling house 325 West 50th st. for a term of years to By Henry Brady.

West 50th st. for a term of years to M. E. Matthews.

By Henry Brady.

West 50th st. for a term of years to M. E. Matthews.

The Houghton Company has leased, G EKELUND. Ber 99. West Falm Beach. Florida

### Apartment Rentals.

### Shipping Information and HOME OF THE LATE ALEXANDER E. ORR SOLD

Stable in Rear of Brooklyn Dwelling Also in Deal.

The Orr estate has sold the four story brownstone dwelling at 102 and 104 Remsen st., Brooklyn, through Howard C. Pyle & Co. The house was for many years the city home of the late Alexander E. Orr.

## Jacob F. Cullman, tobacco dealers. This is one of the most important 20-YEAR LEASE IN JAY STREET

other sales reported yesterds.

"Years ago," the speaker said, "men declared that the last world on had been fought, but present conditions in Europe have shattered their dreams of peace."

It was foolish to prophesy that the last was immune from attack.

It was foolish to prophesy that the last was immune from attack.

It was foolish to prophesy that the last was immune from attack.

Henry Brady has rented for the Clausen-Flanagan Brewery for the term of ten years the building and yard 317 and 319 East 47th st. to Antonio F Furlo as a wagon factory.

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Apartment Rentals.

Apartment Rentals.

Apartment Rentals.

Apartment Rentals.

Apartment Rentals.

Apartment Rentals.

The F. R. Wood, W. H. Dolson Company rented apartments to the following: A. A. Heard, in 250 West 99th st.; Edinards, trustee for Assign Manager to 18, 1917.

By Baniel Greenwald.

By Baniel Mary.

By Baniel Greenwald.

By Baniel Mary.

By Baniel Greenwald.

By Baniel Mary.

By Baniel Greenwald.

By

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OUTGOING STEAMERS.

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PUBLIC NOTICES.

Marine News of the World Vessels Arriving at and Departing from Port of New York.

MINIATURE ALMANAC.

Sunrise, 6:43; sunset, 4:46; mosn sets, 10:14; mosn sets, 5.

STEAMERS AT FOREIGN PORTS.

Nov 11-Toronto (Br), New York, Nov 5-Lyngenfjord (Nor), New York for Bergini. Nov I.—Weo, Stockholm for New York.

Sirkwall. Nov I.—Weo, Stockholm for New York.

Letterdam, Nov &—Strathdene (Br), New York; Horsa

(Br) New York via Falmouth.

ardid. Nov 9—Annapolis (Br), New York.

Jerpson, Nov II.—Ordina (Br), New York via

letterpool. Nov II.—Ordina (Br), New York via n, Nov 11-Riouw (Dutch), New York via

Rie de Janeiro, Nor 10-Cailfornian, New York, Botterdam, Nov 6-La Fiandre, (Dutch), New York, Cornell, Nov 9-Chimu, New York, Havre, Nov 6-Livingaton Court (Br), New York; 5th, Strathord (Br), New York, Cristobal, Nov 17-Ainfrante (from New York), ena.

Nov 11—Shimosa (Br) (from Hong Kong
Kong
Letoria, B C), New York via Cape Horn,
nt, C V, Nov 11—City of Oran (Br) (from
erk), Vladivostok,
Nov 4—Tilemachos (Grk) (from Pirsous),

SAILED.

### THE WEATHER REPORT

Forecasts and Records for the Last Twenty-four mounts for area which has caused high winds and gales in the which has caused high winds and gales in the Middle West and the upper lake region in the last day or so has passed northeastward toward than 3 bay, and the storm winds have subsided, although scattered thunderstorms occurred Thursday in the Mississippt Valley. The temperatures continued in the Mississippt Valley. The temperatures continued to the storm of th

marks for Special Localities.—Eastern New New Jersey, Eastern Pronsylvania and Delaparity sloudy and warmer to-day; shearen paider to marries.

Call and the Destrict of Committa party EUROPE

EF 15-N WEST NO STREET, WA

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FRANK F. SHUTE, Mgr,

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HOUSEW ORKER. - Finnish American; ing. city or country; sellent reference, fr E. 185th et "Phone 8418 DAY'S WORK. WORMS good out of the country of the sellent reference and the country of the sellent sellent reference and the country of the sellent reference and the sellent ref